

RECEIVED

NOV 06 2003

TECH CENTER 1600/2900



16

RAW SEQUENCE LISTING

DATE: 10/31/2003

PATENT APPLICATION: US/09/988,165C

TIME: 11:10:11

Input Set : N:\Crf4\10292003\I998165C.raw

Output Set: N:\CRF4\10312003\I988165C.raw

```

1 <110> APPLICANT: Zeppezauer, Michael
2     Schonberger, Arno
3     Cebecauer, Ladislav
4 <120> TITLE OF INVENTION: PEPTIDES FOR THE PRODUCTION OF PREPARATIONS FOR THE DIAGNOSIS AND
5     THERAPY OF AUTOIMMUNE DISEASES
6 <130> FILE REFERENCE: 44011-010700
> 7 <140> CURRENT APPLICATION NUMBER: US/09/988,165C
8 <141> CURRENT FILING DATE: 2001-11-19
9 <150> PRIOR APPLICATION NUMBER: 07/946,180
10 <151> PRIOR FILING DATE: 1992-09-16
11 <160> NUMBER OF SEQ ID NOS: 32
12 <170> SOFTWARE: PatentIn version 3.2
14 <210> SEQ ID NO: 1
15 <211> LENGTH: 25
16 <212> TYPE: PRT
17 <213> ORGANISM: Homo sapiens
18 <400> SEQUENCE: 1
19     Lys Pro Lys Ala Ala Lys Pro Lys Ala Ala Lys Pro Lys Ala Ala Lys
20     1             5             10             15
21     Pro Lys Lys Ala Ala Pro Lys Lys Lys
22     20             25
24 <210> SEQ ID NO: 2
25 <211> LENGTH: 35
26 <212> TYPE: PRT
27 <213> ORGANISM: Homo sapiens
28 <400> SEQUENCE: 2
29     Pro Glu Pro Ala Lys Ser Ala Pro Ala Pro Lys Lys Gly Ser Lys Lys
30     1             5             10             15
31     Ala Val Thr Lys Ala Gln Lys Lys Asp Gly Lys Lys Arg Lys Arg Ser
32     20             25             30
33     Glu Lys Glu
34     35
36 <210> SEQ ID NO: 3
37 <211> LENGTH: 41
38 <212> TYPE: PRT
39 <213> ORGANISM: Homo sapiens
40 <400> SEQUENCE: 3
41     Ser Tyr Ser Val Tyr Val Tyr Lys Val Leu Lys Gln Val His Pro Asp
42     1             5             10             15
43     Thr Gly Ile Ser Ser Lys Ala Met Gly Ile Met Asn Ser Phe Val Asn
44     20             25             30
45     Asp Ile Phe Glu Arg Ile Ala Gly Glu
46     35             40

```

ENTERED

RAW SEQUENCE LISTING

DATE: 10/31/2003

PATENT APPLICATION: US/09/988,165C

TIME: 11:10:11

Input Set : N:\Cr4\10292003\I998165C.raw

Output Set: N:\CRF4\10312003\I988165C.raw

```

48 <210> SEQ ID NO: 4
49 <211> LENGTH: 25
50 <212> TYPE: PRT
51 <213> ORGANISM: Homo sapiens
52 <400> SEQUENCE: 4
53     Lys Pro Lys Ala Ala Lys Ala Arg Val Thr Lys Pro Lys Thr Ala Lys
54     1             5             10             15
55     Pro Lys Lys Ala Ala Pro Lys Lys Lys
56     20             25
58 <210> SEQ ID NO: 5
59 <211> LENGTH: 25
60 <212> TYPE: PRT
61 <213> ORGANISM: Homo sapiens
62 <400> SEQUENCE: 5
63     Ala Ala Lys Ala Val Lys Pro Lys Ala Ala Lys Pro Lys Val Val Lys
64     1             5             10             15
65     Pro Lys Lys Ala Ala Pro Lys Lys Lys
66     20             25
68 <210> SEQ ID NO: 6
69 <211> LENGTH: 25
70 <212> TYPE: PRT
71 <213> ORGANISM: Homo sapiens
72 <400> SEQUENCE: 6
73     Lys Pro Lys Ala Ala Lys Pro Lys Ser Gly Lys Pro Lys Val Thr Lys
74     1             5             10             15
75     Ala Lys Lys Ala Ala Pro Lys Lys Lys
76     20             25
78 <210> SEQ ID NO: 7
79 <211> LENGTH: 25
80 <212> TYPE: PRT
81 <213> ORGANISM: Homo sapiens
82 <400> SEQUENCE: 7
83     Lys Pro Lys Ala Ala Lys Pro Lys Thr Ala Lys Pro Lys Ala Ala Lys
84     1             5             10             15
85     Pro Lys Ala Ala Ala Ala Lys Lys Lys
86     20             25
88 <210> SEQ ID NO: 8
89 <211> LENGTH: 25
90 <212> TYPE: PRT
91 <213> ORGANISM: Homo sapiens
92 <400> SEQUENCE: 8
93     Lys Pro Lys Ala Ala Lys Pro Lys Ala Ala Lys Pro Lys Ala Ala Lys
94     1             5             10             15
95     Ala Lys Lys Ala Ala Ala Lys Lys Lys
96     20             25
98 <210> SEQ ID NO: 9
99 <211> LENGTH: 27
100 <212> TYPE: PRT
101 <213> ORGANISM: Homo sapiens

```

RAW SEQUENCE LISTING

DATE: 10/31/2003

PATENT APPLICATION: US/09/988,165C

TIME: 11:10:11

Input Set : N:\Crf4\10292003\I998165C.raw

Output Set: N:\CRF4\10312003\I988165C.raw

```

102 <400> SEQUENCE: 9
103     Lys Pro Lys Ala Ala Lys Pro Lys Ala Ala Lys Pro Lys Ala Lys
104     1             5             10             15
105     Pro Lys Ala Lys Lys Ala Ala Ala Lys Lys Ala
106             20             25
108 <210> SEQ ID NO: 10
109 <211> LENGTH: 27
110 <212> TYPE: PRT
111 <213> ORGANISM: Bos taurus
112 <400> SEQUENCE: 10
113     Ala Pro Ala Ala Pro Ala Ala Ala Pro Pro Ala Glu Lys Thr Pro Val
114     1             5             10             15
115     Lys Lys Lys Ala Ala Lys Lys Pro Ala Gly Ala
116             20             25
118 <210> SEQ ID NO: 11
119 <211> LENGTH: 21
120 <212> TYPE: PRT
121 <213> ORGANISM: Bos taurus
122 <400> SEQUENCE: 11
123     Arg Ser Gly Val Ser Leu Ala Ala Leu Lys Lys Ala Leu Ala Ala Ala
124     1             5             10             15
125     Gly Tyr Asp Val Glu
126             20
128 <210> SEQ ID NO: 12
129 <211> LENGTH: 20
130 <212> TYPE: PRT
131 <213> ORGANISM: Bos taurus
132 <400> SEQUENCE: 12
133     Thr Lys Gly Thr Gly Ala Ser Gly Ser Phe Lys Leu Asn Lys Lys Ala
134     1             5             10             15
135     Ala Ser Gly Glu
136             20
138 <210> SEQ ID NO: 13
139 <211> LENGTH: 41
140 <212> TYPE: PRT
141 <213> ORGANISM: Bos taurus
142 <400> SEQUENCE: 13
143     Lys Asn Asn Ser Arg Ile Lys Leu Gly Leu Lys Ser Leu Val Ser Lys
144     1             5             10             15
145     Gly Thr Leu Val Glu Thr Lys Gly Thr Gly Ala Ser Gly Ser Phe Lys
146             20             25             30
147     Leu Asn Lys Lys Ala Ala Ser Gly Glu
148             35             40
150 <210> SEQ ID NO: 14
151 <211> LENGTH: 51
152 <212> TYPE: PRT
153 <213> ORGANISM: Bos taurus
154 <400> SEQUENCE: 14
155     Ala Leu Ala Ala Ala Gly Tyr Asp Val Glu Lys Asn Asn Ser Arg Ile

```

RAW SEQUENCE LISTING

DATE: 10/31/2003

PATENT APPLICATION: US/09/988,165C

TIME: 11:10:11

Input Set : N:\Crf4\10292003\I998165C.raw

Output Set: N:\CRF4\10312003\I988165C.raw

```

156      1          5          10          15
157      Lys Leu Gly Leu Lys Ser Leu Val Ser Lys Gly Thr Leu Val Glu Thr
158              20          25          30
159      Lys Gly Thr Gly Ala Ser Gly Ser Phe Lys Leu Asn Lys Lys Ala Ala
160              35          40          45
161      Ser Gly Glu
162              50
164 <210> SEQ ID NO: 15
165 <211> LENGTH: 62
166 <212> TYPE: PRT
167 <213> ORGANISM: Bos taurus
168 <400> SEQUENCE: 15
169      Arg Ser Gly Val Ser Leu Ala Ala Leu Lys Lys Ala Leu Ala Ala Ala
170      1          5          10          15
171      Gly Tyr Asp Val Glu Lys Asn Asn Ser Arg Ile Lys Leu Gly Leu Lys
172              20          25          30
173      Ser Leu Val Ser Lys Gly Thr Leu Val Glu Thr Lys Gly Thr Gly Ala
174              35          40          45
175      Ser Gly Ser Phe Lys Leu Asn Lys Lys Ala Ala Ser Gly Glu
176              50          55          60
178 <210> SEQ ID NO: 16
179 <211> LENGTH: 25
180 <212> TYPE: PRT
181 <213> ORGANISM: Bos taurus
182 <400> SEQUENCE: 16
183      Lys Pro Lys Ala Ala Lys Pro Lys Ala Ala Lys Pro Lys Ala Ala Lys
184      1          5          10          15
185      Pro Lys Lys Ala Ala Pro Lys Lys Lys
186              20          25
188 <210> SEQ ID NO: 17
189 <211> LENGTH: 35
190 <212> TYPE: PRT
191 <213> ORGANISM: Bos taurus
192 <400> SEQUENCE: 17
193      Pro Glu Pro Ala Lys Ser Ala Pro Ala Pro Lys Lys Gly Ser Lys Lys
194      1          5          10          15
195      Ala Val Thr Lys Ala Gln Lys Lys Asp Gly Lys Lys Arg Lys Arg Ser
196              20          25          30
197      Glu Lys Glu
198              35
200 <210> SEQ ID NO: 18
201 <211> LENGTH: 41
202 <212> TYPE: PRT
203 <213> ORGANISM: Bos taurus
204 <400> SEQUENCE: 18
205      Ser Tyr Ser Val Tyr Val Tyr Lys Val Leu Lys Gln Val His Pro Asp
206      1          5          10          15
207      Thr Gly Ile Ser Ser Lys Ala Met Gly Ile Met Asn Ser Phe Val Asn
208              20          25          30

```

RAW SEQUENCE LISTING

DATE: 10/31/2003

PATENT APPLICATION: US/09/988,165C

TIME: 11:10:11

Input Set : N:\CrF4\10292003\I998165C.raw

Output Set: N:\CRF4\10312003\I988165C.raw

```

209      Asp Ile Phe Glu Arg Ile Ala Gly Glu
210              35                      40
212 <210> SEQ ID NO: 19
213 <211> LENGTH: 17
214 <212> TYPE: PRT
215 <213> ORGANISM: Bos taurus
216 <400> SEQUENCE: 19
217      Ala Ser Arg Leu Ala His Tyr Asn Lys Arg Ser Thr Ile Thr Ser Arg
218      1                      5                      10                      15
219      Glu
221 <210> SEQ ID NO: 20
222 <211> LENGTH: 12
223 <212> TYPE: PRT
224 <213> ORGANISM: Bos taurus
225 <400> SEQUENCE: 20
226      Ile Gln Thr Ala Val Arg Leu Leu Leu Pro Gly Glu
227      1                      5                      10
229 <210> SEQ ID NO: 21
230 <211> LENGTH: 8
231 <212> TYPE: PRT
232 <213> ORGANISM: Bos taurus
233 <400> SEQUENCE: 21
234      Leu Ala Lys His Ala Val Ser Glu
235      1                      5
237 <210> SEQ ID NO: 22
238 <211> LENGTH: 12
239 <212> TYPE: PRT
240 <213> ORGANISM: Bos taurus
241 <400> SEQUENCE: 22
242      Gly Thr Lys Ala Val Thr Lys Tyr Thr Ser Ser Lys
243      1                      5                      10
245 <210> SEQ ID NO: 23
246 <211> LENGTH: 21
247 <212> TYPE: PRT
248 <213> ORGANISM: Bos taurus
249 <400> SEQUENCE: 23
250      Pro Glu Pro Ala Lys Ser Ala Pro Ala Pro Lys Lys Gly Ser Lys Lys
251      1                      5                      10                      15
252      Ala Val Thr Lys Ala
253              20
255 <210> SEQ ID NO: 24
256 <211> LENGTH: 8
257 <212> TYPE: PRT
258 <213> ORGANISM: Bos taurus
259 <400> SEQUENCE: 24
260      Ala Lys Ser Ala Pro Ala Pro Lys
261      1                      5
263 <210> SEQ ID NO: 25
264 <211> LENGTH: 22

```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/31/2003
PATENT APPLICATION: US/09/988,165C TIME: 11:10:12

Input Set : N:\Crf4\10292003\I998165C.raw
Output Set: N:\CRF4\10312003\I988165C.raw

ase Note:

of n and/or Xaa have been detected in the Sequence Listing. Please review the
uence Listing to ensure that a corresponding explanation is presented in the <220>
<223> fields of each sequence which presents at least one n or Xaa.

#:32; Xaa Pos. 2

alid Line Length:

rules require that a line not exceed 72 characters in length. This includes spaces.

#:1; Line(s) 4

VERIFICATION SUMMARY

DATE: 10/31/2003

PATENT APPLICATION: US/09/988,165C

TIME: 11:10:12

Input Set : N:\Crf4\10292003\I998165C.raw

Output Set: N:\CRF4\10312003\I988165C.raw

M:270 C: Current Application Number differs; Replaced Current Application Number
45 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0